Above Ground Swimming Pools

Any structure intended for swimming or recreation bathing that is capable of holding water 24" or more in depth, including inground, aboveground and on ground swimming pools, hot tubs and spas shall comply with the following: :

Receptacles for water pump motor or related to circulation

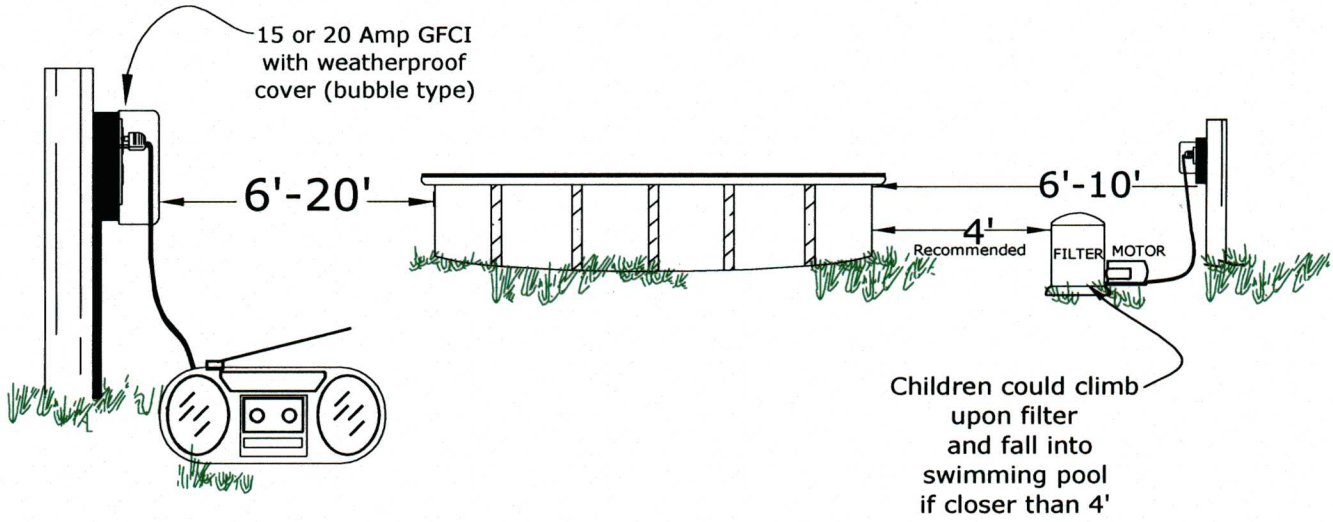
(required)

- ☐ 6ft-10ft from inside wall of pool.
- ☐ 20 amp -12AWG
- ☐ GFCI protected, single twist lock, weatherproof device box with in-use cover.
- ☐ 3ft maximum cord length.
- ☐ It is recommended that the pump be no closer than 4' from pool .

Receptacles for general purpose

(one required)

- ☐ 15 or 20 amp GFCI weatherproof device box with in-use cover.
- ☐ 6ft-20ft measured from inside wall of pool.



Wiring

☐ All wiring to the receptacles shall be buried underground and shall extend 5' horizontally from the inside wall of the pool with a minimum depth measured from the top of conduit for the following types:

6" rigid metal conduit
6" intermediate metal conduit
18" nonmetallic conduit (pvc)

☐ Metal conduit shall be corrosion resistant and suitable for the location.

☐ Conductors inside of conduits shall be insulated:
#12 awg for 20 amp (120V) and rated for wet locations
black (or approved color); white and green

No Underground feeder cable (UF) may be used for motor branch circuits.

Bonding VOLTAGE

This means that you must join all metallic parts to form an electrically conductive path that will ensure electrical continuity to safely guard against any electrical current that may likely be imposed.

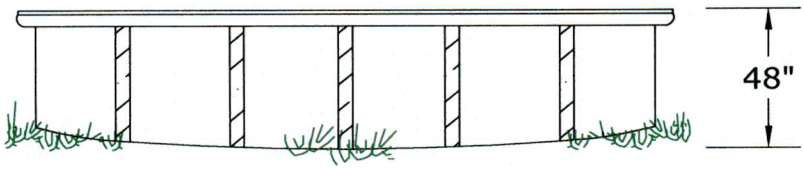
☐ Use #8 AWG solid, covered or bare copper wire or larger, from the wire lug on the motor and all metal parts relating to the pool circulating system, to a metal pool upright and to any other metal within 5' of the pool.
*See note below.

☐ The pool water shall be bonded by a conductive surface area of 9 square inches.
(example: model #E325037 Pool water bonder II)
http://www.waterbonder.com/

*If pool pump motor is double insulated it shall not be bonded to this motor but instead shall be connected to the pool pump motor receptacle equipment grounding conductor (green).

Note:
A solid #8 (green insulated or bare) copper conductor of sufficient length shall be provided to make a connection to a replacement motor if the motor is not double insulated.

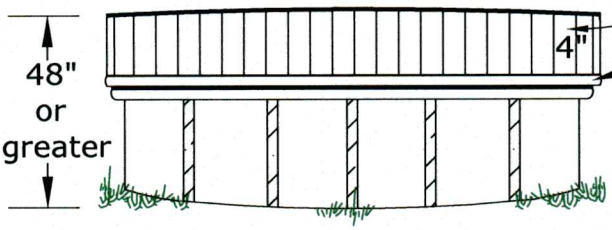
Barrier requirements



If pool is not at least 48" above grade at all locations a barrier must be used.

- ☐ The pool must be 48" high from the finished grade level to the top of the pool ledge at all points around the pool, if not a barrier must be erected.
- ☐ This barrier must be measured on the outside (side facing away from the pool.)
- ☐ The maximum opening space between the ground level and the bottom of the barrier can be 2" max.

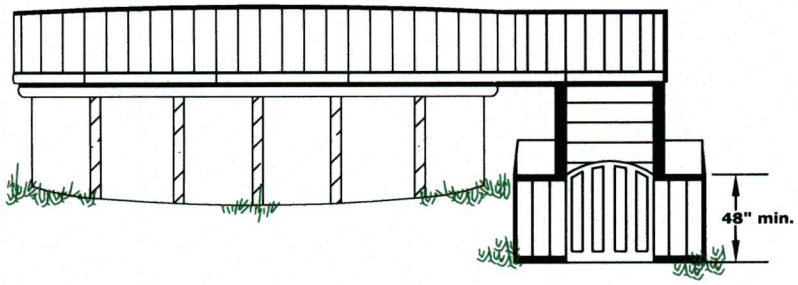
If the barrier is mounted on top of the pool structure the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall not exceed 4". Many of the pools are purchased with this feature that attaches the barrier on top of the shelf around the pool but remember that the opening may not allow passage of a 4" sphere at both sides of the ladder, deck or between the balusters!



Openings shall not allow passage of a 4" sphere between the barriers and between the pool ledge and bottom rail.

Ladder requirements

- ☐ A ladder or steps shall be capable of being secured, locked or removed when not in use to prevent access.
- ☐ If permanent steps are installed as shown below then a gate with barriers are required at the bottom of the staircase. The gate must open away from the steps and follow all barrier requirement on the following pages.

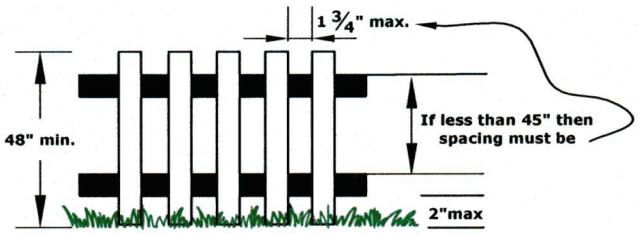


The latch must be placed on the inside of this gate.
See the following pages for requirements.

Different types of barriers

Vertical and Horizontal (Ladder Effect)

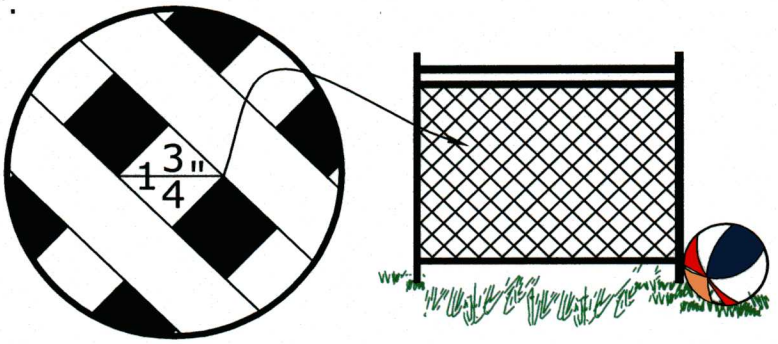
☐ If the barrier is made up of vertical and horizontal members and the space between the horizontals are less than 45" then the horizontal members must be constructed on the pool side. Spacing between the vertical members shall not be greater than $1\frac{3}{4}$". If the horizontal members are more than 45" then the horizontal members can be on the outside of the pool and the vertical spacing can be increased to 4"max.



This reason for this restriction is that a child can climb on the horizontal railing and get to the other side.

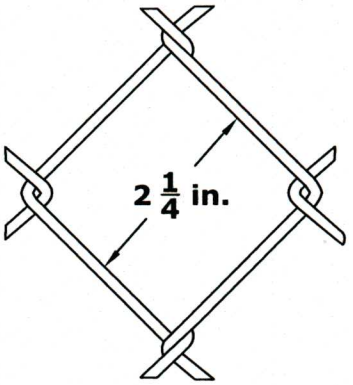
Diagonal (Lattice type)

☐ Maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$".



Chain Link

☐ Maximum mesh size opening shall not be greater than $2\frac{1}{4}$" square unless the fence has slats fastened at the top or bottom which reduces the openings to $1\frac{3}{4}$".

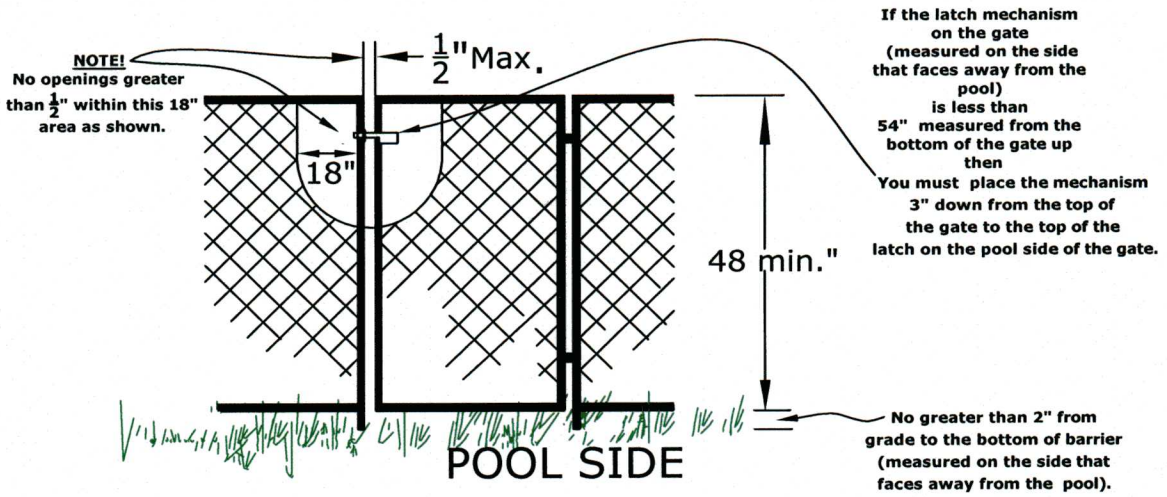


Pedestrian gates (Pool access)

- ☐ Gates shall open outward away from the pool.
- ☐ Gates shall be self-closing and self-latching.
- ☐ Gates shall be equipped to accommodate a locking device
- ☐ Where the release mechanism of the latch is located less then 54" from the bottom of the gate, the mechanism and opening shall have the following and illustrated below:
  - ☐ The latch shall be located on the pool side 3" below the top of the gate.
  - ☐ No openings larger than $\frac{1}{2}$" within 18" of the release latch.

Gates other than pedestrian access (Equipment access)

- ☐ Gates shall be self latching
- ☐ Gates shall be equipped to accommodate a locking device.
- ☐ Where the release mechanism of the latch is located less then 54" from the bottom of the gate measured up, the mechanism and opening shall have the following as illustrated below:
  - ☐ The latch shall be located on the pool side 3" below the top of the gate.
  - ☐ No openings larger than $\frac{1}{2}$" within 18" of the release latch.



Dwelling serves as part of the barrier

All doors from the house with direct access to the pool shall have an a listed and labeled alarm. The alarm is an audible warning when the door and/or its screen, if present, are opened. The following requirements must be followed.

- ☐ Listed and labeled in accordance with UL 2017
- ☐ The deactivation switch shall be located at least 54" above the threshold of the door.
- ☐ Other means like self-closing doors with self latching devices must be approved by the Building Code Official.